semantic learning module word-level LSTM sentence-level LSTM Evil Genius (2017) underrated and misunderstood LSTM First of al., do not confuse with :Evil ( L LSTM America's Most Diabolical Bank Heist ► LSTM second of al not great but well put a o LSTM interesting crime stories and oversimi LSTM nothing very unige or., just nice u kno Att ► d L LSTM idk if deserves a 8 but definatly too u LSTM Att LSTM some amazing stories of people mostly being lucky (but u kn criminals isn't as catchy) should u watch it... yeah it's nice some stories are more inter LSTM it's nice over all not much other then that to say observed tuple latent matching module layer 1 layer L IMDb  $f(u^1, p^1, r) > f(?, p^1, r)$  $f(u^L, p^L, r) > f(?, p^L, r)$ prediction latent module  $f(u^1, p^1, r) > f(u^1, ?, r)$ matching loss  $f(u^L, p^L, r) > f(u^L, ?, r)$ unobserved tuple  $f(u^1, p^1, r) > f(u^1, p^1, ?)$  $f(u^L, p^L, r) > f(u^L, p^L, ?)$ **IMDb** enforce enforce user-product graph ranking graph module IMDb layer L layer 1 W>> IMDb 2222 IMDb W>>> IMDb